

Historic, archived document

Do not assume content reflects current scientific knowledge, policies, or practices.

SEEDS FOR THE GREENHOUSE, GARDEN, AND FARM.

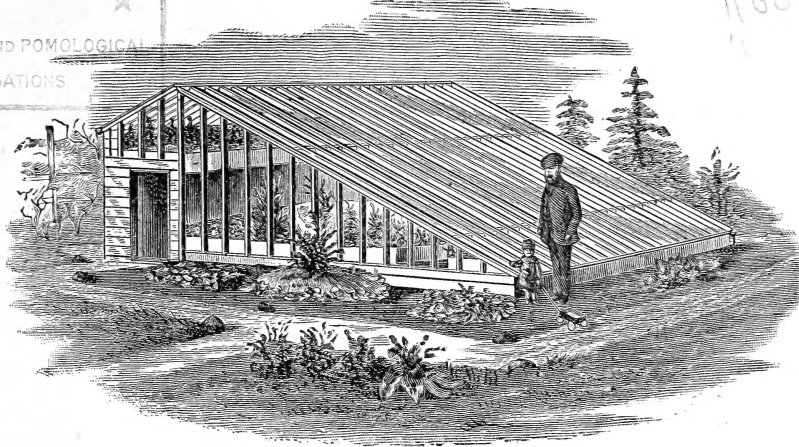
LIBRARY

RECEIVED

AND ESPECIALLY FOR BEE-KEEPERS.

Twentieth Edition. May, 1896

HORTICULTURAL AND POMOLOGICAL
INVESTIGATIONS



PRICE 5 CTS. PER PAPER; 10 PAPERS, 40 CTS.; 100 PAPERS, \$3.50.

Seeds of new or rare vegetables and novelties we include at the uniform price of 5 cts. per package; but, of course, we are obliged to put a smaller number of seeds into such packages. This will be noticed with the Bush Lima Beans and Snowball Cauliflower, etc. Now, these 5-cent papers are all sent by mail postpaid; but when you order seeds by the ounce or pound, allow postage thus: 9 cts. per pound; 5 cts. per half-pound; 1 cent per ounce. Peas and beans by the pint and quart must also have 8c per pint, or 15c per quart, added for postage; on corn add 12c per quart for postage. Postage to Canada is NOW just double above rates. One-fourth ounce, pound, or peck will be sold at ounce, pound, or peck rates, unless otherwise specified.

OUR WARRANT ON ALL THE SEEDS WE SELL.

Now, friends, this is a somewhat difficult matter; but I feel free to say, at the outset, that we guarantee the contents of the packages to be what they are labeled, and seeds to be fresh, either our own raising, or purchased of some one having a good reputation, who makes seed growing a specialty; that is, we warrant them to this extent: If the seeds do not seem to be as represented, we will replace them free of charge; but we can under no circumstances undertake to guarantee a crop, nor can we be responsible for the failure of said crop. The matter is so complex, and there are so many circumstances contributing to make success or failure, that I am obliged to put in this latter clause. If the seeds are not accepted with this understanding, we prefer they should be returned. We are practical market gardeners, and are sowing the seeds we sell, nearly every day in the year. If there is any fault with them, we are usually one of the first to find it out.

ASPARAGUS.

Asparagus, Palmetto. Oz. 5c; lb. 50c.

We have given this new variety a trial beside the Colossal, and it is certainly a stronger and more robust plant.

Asparagus Roots. 2 year old. Palmetto, 10 for 10c; 75c per 100; \$6.00 per 1000. 2 year-old roots not available. 1 year roots, 10, 10c; 100, 50c; 1000, \$4. By mail, add 5c for 10; 25c for 100.

BUSH BEANS.

Kumerle's Bush Lima. Qt. 30c; ½ pk. \$1.00; pk. \$1.85

Also called Dreer's bush lima. The richest and most delicious lima bean in the world, in my opinion.

Burpee's Bush Lima. Pt. 20c; qt. 30c; ½ pk. \$1.00; pk., \$1.85; bu., \$6.00

A FULL-SIZED bush lima bean, equal in every respect to the pole limas.

Henderson's Bush Lima. Pt. 10c; qt. 18c; pk. \$1.25; bu. \$4.50.

Kidney Wax. Pt. 12c; qt. 18c; pk. \$1.00.

This is an improvement on the ordinary Golden Wax Bean, in giving us larger pods, more perfectly free from rust. This bean is a decided acquisition.

Best of All. Pint, 5c; qt. 8c; peck, 50 c.; bush., \$1.75; 5 bush., \$7.50; 10 bush., \$12.50.

This is a green podded string or wax bean, and is the one most largely grown in Florida for the Northern winter markets; it is probably the best of the green podded string beans.

White Kidney, Large. Pt. 8c; qt. 15c; pk. 75c; bu. \$2.75.

York State Marrow. The best field bean. Qt. 15c; peck 75c; bu. \$2.50

One of the best to use shelled, when green or ripe. We sell bushels of these at 10c a pint, shelled green. We market them in new pint strawberry-boxes.

Navy. Qt. 8c; pk. 50c; bu. \$1.75.

POLE BEANS.

Extra-Early Lima Beans. Price, ½ pt., 10c; qt. 25c; peck \$1.50.

King of the Garden Lima. ½ pt. 10c; qt. 25c; peck, \$1.60.

These are fully as good as the common lima, and the pods are considerably larger, saving time in picking and shelling, as well as increasing the yield. We get 15 cents per pint for these, when green, shelled. See White Kidney bean above.

All of our beans will be furnished in 5-cent packages; but where they are to go by mail, postpaid, of course the above packages will have to be quite small. If wanted by mail, add 8c per pt. or 15c per qt. for postage.

BEETS.

Eclipse. Oz. 5c; lb. 25c; 5 lbs. \$1.00.

These have given us the best satisfaction of any thing we ever raised in the way of beets. They are a very quick grower, of excellent quality, and the appearance of the bright smooth scarlet bulbs is fully equal to any thing that has been pictured in the colored plates of our catalogues. In order to get a fancy price for them, start them in the greenhouse, and transplant when of the size of peas, or a little larger. They bear transplanting well, and are exceedingly hardy.

Lane's Improved Sugar. Oz. 5c; lb. 20c; 5 lbs. 85c.

The best variety for stock-feeding. It showed a larger per cent of sugar at the Experiment Station than any other analyzed. It is so sweet, that, when small, they are nice to eat raw, and make an excellent table beet. Has yielded as high as 20 tons to the acre.

Long Red Mangel. Oz. 5c; lb. 15c; 5 lbs., 70c; 10 lbs., \$1.20, 20 lbs. or more, 10c per lb.

Yields enormously, and is the most profitable for stock, but not so sweet as Lane's Improved.

Golden Tankard. Oz. 5c; lb. 15c; 5 lbs., 70c; 10 lbs., \$1.20; 20 lbs. or over, 10c per lb.

CABBAGE.

Select, Very Early Jersey Wakefield. Stock seed. Oz. 20c; lb. \$2.50.

Our cabbage seed is raised by H. A. March, Fidalgo Bay, near Puget Sound, Washington Territory. Thousands of sample packages were sent out by us, and friend March's seeds ought to be pretty well known. The Early Jersey Wakefield, of the best selected strain, is fully as early as any other cabbage known, and greatly superior in quality. We have sold single heads at retail at 30c each, raised from plants started in the greenhouse in February.

Henderson's Early Summer. Oz. 10c; lb. \$1.00. This comes next to the Jersey Wakefield, and although it is an early cabbage, under very favorable conditions it produces large heads of most excellent quality.

Fottler's Brunswick. Oz. 10c; lb. \$1.10.

This is one of the old staple varieties, and is planted as extensively as any one variety, from medium to late cabbage. Starding a long time without bursting.

Burpee's Sure-head. Oz. 10c; lb. \$1.10.

Our large swamp-gardeners of Medina County keep calling for this cabbage each season so regularly that we have been obliged to put it in stock.

Excelsior Flat Dutch. Oz. 10c; lb. \$1.00.

Pronounced by Brill the BEST LATE CABBAGE. This has given us the finest heads of LARGE CABBAGE we have ever grown.

Perfection Drumhead Savoy. Oz. 10c; lb. \$1.25.

The Savoy cabbage is handsome in appearance, and richer and finer in quality, and STANDS FROST better than any of the other varieties. In taste it nearly approaches the cauliflower.

Large Red Drumhead. Oz. 10c; lb. \$1.25.

This is a red cabbage for pickling. The bright red, by way of contrast, will make a load or lot of cabbages attract attention, and there is always more or less demand for red cabbage for pickles. Heads are very solid, and **SPLENDID KEEPERS.**

CARROTS.**Early French Forcing.** Oz. 5c; lb. 50c.

These are small, but very early, and often bring a good price, because they are the first that make their appearance in the market. Bunched up like radishes, they are very taking in appearance.

Orange Danvers, Half-Long. Oz. 5c; lb. 50c.

Yields well, and is easy to dig. The best sort known.

CAULIFLOWER.**Henderson's Early Snowball.** Raised by H. A. March. $\frac{1}{2}$ Oz. 25c; $\frac{1}{4}$ Oz. 40c; oz. \$1.50.

Nice specimens of early cauliflower often bring extravagant prices, and it pays well to start them in the greenhouse, and use hand-glasses to forward them before the hot weather comes on.

CELERY.**Henderson's White Plume.** Oz., 20.; lb., \$2.00.

We place this at the head of the list, and especially for early celery. We often have fine stalks on the market in July, which sell readily at 10c each. The seed is started in the greenhouse about the middle of January. On account of its self-blanching qualities it is better fitted for early celery than any other.

Golden Self-Blanching Celery. Oz., 20c; lb., \$2.00.

It is different from all others we have seen, in being not only more dwarf—i. e. shorter, but it is also thicker; in fact, the plant, when fully matured, is so thick and stumpy as to create surprise. The variety is also excellent, and the labor of banking up is not more than that of the White Plume. It is rather an early celery, and should be used soon after approaching maturity.

New Rose. Oz. 20c; lb. \$1.75.

Our verdict is that it is not only the hardiest and best grower among the whole celery family, but, when properly bleached by being put away for winter, it has given us the finest and most delicious and crisp celery we ever tasted. Although it is a red celery when growing, when fully bleached there is hardly a trace of the pink color, but it is a beautiful creamy white. We place it at the head of every thing else for a LATE WINTER celery.

Giant Paschal. Oz. 20c; lb. \$1.50.

A selection from the Golden Self-blanching, and probably the latest and best large celery in the market. It has been for several years steadily gaining favor with almost all the large celery-growers.

Dwarf Golden Heart. Oz. 10c; lb. \$1.25.

One of the standard sorts for a later crop. The golden tint of the head stalks makes it a very handsome vegetable.

CORN (FOR TABLE USE).

Corn we sell at 5c per half-pint package; but at this price purchasers must pay the postage, which is 3c for each half-pint. If wanted in larger quantities the price will be, pt., 7c; qt., 10c; pk., 50c; bu., \$1.75.

Cory's Extra Early.

Cory's corn has not only proved to be the earliest by ten days or two weeks, but the ears are surprisingly large and fine; and the quality, if cooked at once, as soon as picked, is almost equal to any sweet corn we have.

Stowell's Evergreen.**Ford's Early Sweet.**

Excellent in quality, fine good-sized ears, and exceedingly early.

Large Mammoth Sugar.

This is excellent in quality, and gives ears of mammoth size, and is a wonderful yielder. Besides this, our strain is the SWEETEST sweet corn we have ever grown, and we have tested all the novelties that have been recommended. Our trade has been very large in this corn for 15 years.

Country Gentleman, or Improved Shoepeg.

This is the same thing as the Ne Plus Ultra, Banana, or Quaker Sweet. It is the most meaty and delicious corn that I ever tasted. It is unsurpassed for home use.

Sweet Corn for fodder. Pk. 40c; bu. \$1.25.**CORN SALAD.****Oz. 5c; lb. 40c.**

Sometimes called Lamb's Lettuce. It is to me a most delicious salad, something like lettuce, but having a peculiar rich flavor suggestive of cowslips and spring. It is very hardy, and will often stand out all winter. It does splendidly in greenhouses and cold-frames.

CRESS.**Extra Curled, or Pepper Grass.** Oz. 5c; lb. 30c.

Our seed is the best we can get, and we can not undertake to compete with cheap foreign-grown seeds.

Water Cress, true. Oz. 30c; lb. \$3.50.

Watercress-plants, strong and nicely rooted. Post-paid, by mail, 10 for 15c; 100, 50c.

CUCUMBER.**Early Frame.** Oz. 5c; lb. 30c.

The earliest cucumber.

Improved Early White Spine, or Arlington.

Oz. 5c; lb. 30c.

We have for some years, sold Rawson's, grown especially for greenhouse culture, but of late it seems little better than the above, while the price is about three times as much.

Green Prolific, or Boston Pickle. Oz. 5c; lb. 30.

Wonderfully productive; medium size; dark green; tender. It yields fully twice as many pickles as any variety we ever tried.

LETTUCE.**Grand Rapids Lettuce.** Oz. 15c; pound, \$1.75; 5 lbs. \$7.50. *This seed is from the originator, Eugene Davis.*

This is the best all-purpose lettuce in cultivation. It has been developed from the Black-seed. It surpasses by something like fifteen years of careful selection. It is superior and beautiful in appearance, a strong grower, very tender and crisp. At least fifty large greenhouses are now engaged in raising this kind of lettuce for market, in the neighborhood of Grand Rapids, Mich. For further particulars, see our book, "What to Do," etc.

Boston Market (or White-seeded Tennis-ball).

Oz., 10c; lb., 75c.

The best variety of HEAD lettuce for greenhouse culture, as the heads are small, but compact and handsome.

Henderson's New York. Oz. 10c; lb. \$1.50.

We consider this the best head lettuce for outdoor culture known.

MELONS, MUSK.**Casaba, or Persian Muskmelon.** Oz. 5 cts.; lb. 30c.

A standard variety, of fair size. Last season we had specimens that I called the best melon I ever tasted.

Extra Early Citron. Oz. 5c; lb. 40c.

Always profitable because of its extreme earliness.

Banana. Oz. 5c; lb. 40c.

I consider this one of the best muskmelons it has been my fortune to taste. They grow from 18 inches to 3 feet long; smooth skin; color, bright yellow. Always sell well on account of their unique appearance.

Emerald Gem. Oz. 5c; lb. 40c.

This is a small one, say from 14 to 2 lbs. The skin is of a deep emerald green, and the flesh is of a salmon color—very delicious. My way is to eat it with a spoon, scraping the melon clear down to the rind. Of course, they want to be well ripened. I believe I should call it one of the most delicious of all muskmelons.

Miller's Cream, or Osage. Oz. 5c; lb. 40c.

We have been testing this for three years past. While the quality, perhaps, is not greatly better than some others, it certainly excels in yield. The meat is very thick, with a beautiful salmon color. The melons are dark green, and never turn yellow. When they are ripe, the stem will pull off of itself. We gather them for market, however, when they separate easily from the vine. It is certainly an acquisition.

MELONS, WATER.**Phinney's Early.** Oz. 5c; lb. 30c.

The quality is very good, but the size is not very large.

Landreth's Boss. Oz. 5c; lb. 30c.

A melon that seems to combine more of the good qualities for a large late watermelon than any other.

Sweetheart. Judging from a barrel of melons sent us last August, we should place this, for quality, ahead of all other water-melons. Oz. 5c; lb. 30c.

ONION.**Yellow Globe Danvers.** Oz. 8c; lb. 80c.

A standard yellow variety. The best of all to grow from seed.

Large Red Wethersfield. The standard red onion. Oz. 8c; lb. 90c.**Prize Taker.** Oz. 12c; lb. \$1.35.

This is the celebrated onion we see in the stores, called Spanish onion. Its color is nearly white. It is one of the finest flavored onions grown, but is not a very good keeper. In this region it is better to start the seed under glass in January or February, then plant the small onions out in the field as soon as the ground can be worked.

White Victoria. Oz. 20c; lb. \$2.50.

We regard it as an acquisition for bunch onions, from the fact that the bulbs when grown in muck, are of a pearly whiteness, and need no peeling at all. If sown tolerably thick, you can pull them by the handfuls. Slip a rubber around them, swish them in a bucket of water, and they are ready for market. If sown early, we get 5 cts. for a $\frac{1}{2}$ -lb. bunch. These, besides being valuable for bunch onions, when given room and proper culture (see Prize Taker) grow to an immense size. I regard them as the handsomest early onion I have seen.

American (Extra Early) Pearl. Oz. 25c; $\frac{1}{2}$ -lb. \$1.50; lb. \$2.75.

In September, 1890, Johnson & Stokes were so very positive that sets of the above onion could be planted in the open field in September that I sent for half a peck of sets for trial.

Revised Price List of Garden Seeds for Feb. 15, 1897.

Please notice that any or all seeds mentioned below are sold in five-cent packages, postpaid by mail. For 10 papers ordered at one time, 40 cts.; 100 papers, \$3.50. Of course, scarce and high-priced seed will necessitate making only a very small amount of seed in a package; but by far the greater part of them contain a full half-ounce of good fresh seeds. By comparing these packages with those you get of many of the seedsmen you will notice the liberal amounts we furnish for only 5 cts. It is true, we do not give presents or cash prizes; but we believe the most intelligent people of the present day would prefer to have their money's worth of what they ordered, rather than to compete for a prize. The five-cent packages are sent postpaid; but the price of all other seeds does not include postage; therefore, when you order seed by the ounce or pound, allow postage thus: 9 cts. per lb.; 5 cts. per $\frac{1}{2}$ lb., or 1 ct. per oz. Peas and beans by the pint and quart must also have 8 cts. per pint or 15 cts. per quart; for corn, add 12 cts. per quart for postage. Postage to Canada is double the above rates. One-fourth ounce, pound, or peck, will be sold at ounce, pound, or peck rates unless otherwise specified. In the enumeration below, no description of the seeds is given, as you may notice. Our complete catalog, with full description, will be mailed on application if you have not already received it.

ASPARAGUS.

Asparagus, Palmetto. Oz. 5c; lb. 40c.
Asparagus Roots. 2 year old. Palmetto, 10 for 10c; 75c per 100; \$6.00 per 1000. 2 year-old roots not available. 1 year roots, 10, 10c; 100, 50c; 1000, \$4. By mail, add 5c for 10; 25c for 100.

BUSH BEANS.

Kumerle's Bush Lima. Qt. 25c; $\frac{1}{2}$ pk. 75c; pk. \$1.25.
Burpee's Bush Lima. Pt. 15c; qt. 25c; $\frac{1}{2}$ pk. 75c; pk., \$1.25; bu., \$4.50.
Henderson's Bush Lima. Pt. 10c; qt. 18c; pk. \$1.00; bu. \$3.75.
Kidney Wax. Qt. 10c; pk. 60c.
Best of All. Qt. 5c; peck, 40c; bush., \$1.25.
White Kidney, Large. Pt. 8c; qt. 15c; pk. 75c; bu. \$2.75.
York State Marrow. The best field bean. Qt. 10c; peck 75c; bu. \$2.50.
Navy. Qt. 5c; pk. 35c; bu. \$1.25.

POLE BEANS.

Extra-Early Lima Beans. Price, $\frac{1}{2}$ pt., 8c; qt. 20c; peck \$1.00.
King of the Garden Lima. $\frac{1}{2}$ pt. 8c; qt. 20c; peck, \$1.00.

All of our beans will be furnished in 5-cent packages; but where they are to go by mail, postpaid, of course the above packages will have to be quite small. If wanted by mail, add 8c per pt. or 15c per qt. for postage.

BEETS.

Eclipse. Oz. 5c; lb. 25c; 5 lbs. \$1.00.
Lane's Improved Sugar. Oz. 5c; lb. 15c; 5 lbs. 60c.
Long Red Mangel. Oz., 5c; lb., 15c; 5 lbs., 70c; 10 lbs., \$1.20, 20 lbs. or more, 10c per lb.
Golden Tankard. Oz., 5c; lb., 15c; 5 lbs., 70c; 10 lbs., \$1.20; 20 lbs. or over, 10c per lb.

CABBAGE.

Select, Very Early Jersey Wakefield. Stock seed. Oz. 20c; lb. \$2.50.
Henderson's Early Summer. Oz. 10c; lb. \$1.00.
Fottler's Brunswick. Oz. 10c; lb. \$1.10.
Burpee's Sure-head. Oz. 10c; lb. \$1.10.
Excelsior Flat Dutch. Oz. 10c; lb. \$1.00.
Perfection Drumhead Savoy. Oz. 10c; lb. \$1.25.
Large Red Drumhead. Oz. 10c; lb. \$1.25.

CARROTS.

Early French Forcing. Oz. 5c; lb. 50c.
Orange Danvers, Half-Long. Oz. 5c; lb. 50c.

CAULIFLOWER.

Henderson's Early Snowball. Raised by H. A. March. $\frac{1}{2}$ oz. 25c; $\frac{1}{4}$ oz. 40c; oz. \$1.50.

CELERY.

Henderson's White Plume. Oz., 20; lb., \$2.00.
Golden Self-Blanching Celery. Oz., 20c; lb., \$2.00.
New Rose. Oz. 20c; lb. \$1.75.
Giant Paschal. Oz. 20c; lb. \$1.50.
Dwarf Golden Heart. Oz. 10c; lb. \$1.25.

CORN (FOR TABLE USE).

Corn we sell at 5c per half-pint package; but at this price purchasers must pay the postage, which is 3c for each half-pint. If wanted in larger quantities the price (where no price is given) will be, pt., 7c; qt., 10c; pk., 50c; bu., \$1.75.

Cory's Extra Early (white cob).
Stowell's Evergreen. Pk. 40c; bu. \$1.25.
Ford's Early Sweet.
Late Mammoth Sugar.

Country Gentleman, or Improved Shoepeg.

Pk. 40c; bu. \$1.25.
Sweet Corn for fodder. Pk. 30c; bu. \$1.00.

CORN SALAD.

Oz. 5c; lb. 40c.

CRESS.

Extra Curled, or Pepper Grass. Oz. 5c; lb. 30c.
Water Cress, true. Oz. 30c; lb. \$3.50.
 Watercress-plants, strong and nicely rooted. Postpaid, by mail, 10 for 15c; 100, 50c.

CUCUMBER.

Early Frame. Oz. 5c; lb. 30c.
Improved Early White Spine, or Arlington. Oz. 5c; lb. 30c.
Green Prolific, or Boston Pickle. Oz. 5c; lb. 25c.

LETTUCE.

Grand Rapids Lettuce. Oz. 5c; pound, 50c; 5 lbs. \$2.00.
Boston Market (or White-seeded Tennis-ball). Oz., 5c; lb., 50c.
Henderson's New York. Oz. 5c; lb. 50c.

MELONS, MUSK.

Casaba, or Persian Muskmelon. Oz. 5 cts.; lb. 30c.
Extra Early Citron. Oz. 5c; lb. 40c.
Banana. Oz. 5c; lb. 40c.
Emerald Gem. Oz. 5c; lb. 40c.
Miller's Cream, or Osage. Oz. 5c; lb. 40c.

MELONS, WATER.

Phinney's Early. Oz. 5c; lb. 30c.
Landreth's Boss. Oz. 5c; lb. 30c.
Sweetheart. Judging from a barrel of melons sent us last August, we should place this, for quality, ahead of all other watermelons. Oz. 5c; lb. 30c.

ONION.

Yellow Globe Danvers. Oz. 5c; lb. 60c; 5 lbs. \$2.50.
Large Red Wethersfield. The standard red onion. Oz. 5c; lb. 60c; 5 lbs., \$2.50.
Prize Taker. Oz. 10c; lb. \$1.10.
White Victoria. Oz. 20c; lb. \$2.50.
American (Extra Early) Pearl. Oz. 25c; $\frac{1}{2}$ -lb. \$1. lb. \$2.50.
Extra Early Red. Oz. 8c; $\frac{1}{4}$ lb., 25c; lb. 75c.

ONION-SETS.

By mail 10 cents per quart extra.

Best Yellow. Qt. 15c; pk. 60c; bu. \$2.00.
Extra Early American Pearl. Qt. 20c; pk. \$1.00 bush., \$3.50. See American Pearl seed.
White Prizetaker (new). Same price as American Pearl.
White Multiplier. Price 10c per pint; 15c per qt; pk. 75c; bu. \$2.75. By mail, 10c per qt. extra.
Winter, or Egyptian Onion Sets. Prices, 5c per qt., or 35c per peck; \$1.00 per bush.

PARSNIP.

Improved Guernsey. Oz. 5c; lb. 25c; 10 lbs., \$2.00.

PARSLEY.

Fine Curled or Double. Oz. 5c; lb. 40c.

PEAS.

Alaska. $\frac{1}{2}$ pt., 5c; peck, 75c; bush., \$2.50.
American Wonder. Qt. 15c; pk. \$1.00; bu. \$3.75.
Premium Gem. $\frac{1}{4}$ pt. 5c; peck, 90c; bu., \$3.25.
Stratagem. $\frac{1}{2}$ pt. 8c; qt. 20c; pk. \$1.25; bu. \$3.90.

Champion of England. Pint, 10c; pk. 75c; bushel, \$2.50.

Peas by mail will be at same rate as beans for postage.

PEPPERS.

Sweet Spanish. ¼ oz. 8c; oz. 20c.

Bullnose. ¼ oz. 5c; oz. 12c.

Cayenne. ¼ oz. 8c; oz. 15c.

PUMPKIN.

Early Sugar. Oz. 5c; lb. 35c.

RHUBARB.

Myatt's Victoria. Oz., 5c; lb., 75c.

Roots, 10c each; 50c for 10; \$3.50 per 100. *Small roots postpaid by mail at above prices.*

RADISHES.

Early Scarlet Globe. Pkt. 5c; oz. 5c; lb. 40c.

Wood's Early Frame. Oz. 5c; lb. 35c.

Beckert's Chartier. Oz. 5c; lb. 40c.

Chinese Rose Winter. Oz. 5c; lb. 35c.

SALSIFY, OR OYSTER PLANT.

New Mammoth. From Sandwich Islands. Oz 8c; lb. 60c.

SPINACH.

Bloomsdale Extra Curled. Oz 5c; lb. 18c. 5 lbs. 75c; 10 lbs. \$1.25.

SQUASH.

Giant Summer Crookneck. Oz. 5c; lb. 40c.

Hubbard. Oz. 5c; lb. 30c; 5 lbs. \$1.25; 10 lbs. \$2.25.

TOMATO.

Golden Queen. Pkt., 5c; oz., 15c; lb., \$2.00.

Ignotum Tomato. ½ oz. 8c; oz. 15c; lb. \$1.50.

Livingston's Beauty. Oz. 20c; lb. \$2.00.

Dwarf Champion. Oz. 20c; lb. \$2.00.

Livingston's New Stone Tomato. Oz. 20c; lb. \$2.00. A very fine large tomato for main crop.

Fordhook Early. The best *early* tomato we have tested. Oz. 35c; lb. \$4.50.

Buckeye State. Oz., 20c; ¼ lb., 60c; lb., \$2.25.

Trophy Tomato. Oz. 10c; lb. 75.

Pear-Shaped Tomatoes. Oz. 20c; lb. \$2.50.

TURNIP.

Purple-top White-globe. Oz. 5c; lb. 30c; 5 lbs. \$1.25.

Yellow Aberdeen. Oz. 5c; lb. 30c.

Breadstone. Oz. 5c; lb. 30c.

White Egg. Oz. 5c; lb. 30c.

Novelties for 1897.

Davis Wax Bean. Pt., 10c; qt., 18c; 4 qts., 65c; pk., \$1.25; bu., \$4.00.

First and most important, perhaps, is the Davis wax bean. This was brought out by Eugene Davis, of Grand Rapids, Mich., the man who gave the world the Grand Rapids lettuce. This wax bean may not be specially superior to others in its crop of snap beans; but it has one advantage over all wax beans that have hitherto appeared. When it ripens it gives a pure white kidney-shaped shell bean; therefore if you do not succeed in selling your whole crop in the green state you can just let them ripen, harvest them, and what you do not want to plant can be sold as a table bean. All other wax beans are more or less colored and spotted, and a white bean is the only one that will sell everywhere for table use. The Davis wax bean is as early as any, as bright and clean, as free from rust, and are fully as large yielders. Some of the catalogs claim that it excels in one or all of these particulars. After having grown quite a good many I should call it fully equal to any, but I think not greatly superior. We offer seed of our own growing at above prices.

Earliest-in-the-world Tomato. ½ oz., 15c; ¼ oz., 25c; ¼ oz., 40c; oz., 75c.

In a test of nearly all kinds offered this was nearly a week ahead, and they gave us as nice, handsome, smooth toma-

atoes as any "in the world." They are not very large; but as it is quite fashionable now to can tomatoes whole, these will be just the thing, for they yield wonderfully. Where they are given plenty of room the plants will often blossom and set green fruit in the seed-bed. This will do no harm, however, for we transplant them to the field with the blossoms and little tomatoes on; and these little tomatoes are the first to ripen. The seed is of our own growing. We would place the Fordhook next, as it is equally handsome, and of good size, although it is about a week later. This seed is also of our own raising, from selected fruit. Oz., 35c.

American Coffee-berry. Package, 5c.

This is probably a variety of the soja beans. At first we were inclined to think from the appearance that it was the same; but on making it into coffee we had to admit that the coffee-berry is something different, and much more like genuine coffee. If I were going to use coffee at all I should prefer this to the real thing—principally, however, because it is nourishing instead of being stimulating. Our stock is so limited that we can for the present furnish it only in five-cent packages.

Mills' Banner Bean. Package, 5c.

This a plain white bean, looking much like the York State marrow; but last season it gave us the largest yield of any thing I ever saw with any of the bean family. At present we can furnish the seed only in five-cent packages.

Northern Prolific Upland Rice. Package, 5c.

This will certainly grow in ordinary soil, for we had quite a success with a little bed of it in our garden across the way. It looks just like ordinary rice, but it seems to yield quite well with ordinary care and culture. We can furnish it only in five-cent packages.

Whittaker Onions. Large—qt., 10c; pk., 75c; bu., \$2.50; small (sets)—qt., 18c; pk., \$1.25; bu., \$4.00.

These have been so fully described during the past year we will only add that they are probably an improved and exceedingly hardy variety of potato onions. They can be planted out at any time in the spring or fall. They multiply exactly like the White Multiplier. Price of either the Whittaker or White Multiplier, large onions, just right to plant out to produce small ones; or small sizes (called sets) of either of the above, as above quoted.

Bunch Yams and Vineless Sweet Potatoes.

These also have proved themselves a success during the past season; but it is too early now to give prices of either plants or tubers. As soon as the weather will permit we shall be on hand with both.

SEED POTATOES AS PREMIUMS FOR SUBSCRIBING TO GLEANINGS.

Now it is near to planting-time, please remember that everybody who sends us \$1.00 for GLEANINGS, past, present, or future, may have, as a premium, 1 lb. of Thoroughbred potatoes for every dollar he sends us, or 2 lbs. of any other kind in the list. If wanted by mail, add 9c per lb. extra for post. Still further, if any present subscriber will get us a new name, that is, will get GLEANINGS going into some neighborhood where it is not now going, we will give him a peck of Thoroughbreds or ½ bushel of any of the other kinds. Of course, you must pay the shipping charges. If any of you like small potatoes for planting, you may have just twice the quantity of seconds. See revised prices below:

NAME	1 lb. by mail.	3 lbs. by mail.	½ peck.	Peck.	½ bushel.	Bushel.	Barrel—11 pk.
Varieties are in order as regards time of maturing; earliest first, next earliest second, and so on.							
White Bliss Triumph	\$ 15	\$ 35	\$ 20	\$ 35	\$ 60	\$ 1 00	\$ 2 50
E. Thoroughbred, Maule's	30	50	50	30	1 50	2 25	5 00
Early Ohio	15	35		25	40	75	2 00
Early Northern	15	35		20	35	60	1 50
Burpee's Extra Early	15	35		25	40	75	1 75
Freeman	15	35		20	30	60	1 50
New Queen	15	35		20	30	50	1 25
Monroe Seedling	15	35		20	30	50	1 25
Rural New-Yorker No. 2.	15	35		20	30	50	1 25
Sir William	15	35		20	30	60	1 50
Carman No. 1	15	35		25	35	60	1 50
Carman No. 3	15	35	20	25	40	75	2 00
Koshkonong	15	35		25	40	75	2 00
Manum's Enormous	15	35	20	35	60	1 00	2 50
New Craig	15	35	20	35	60	1 00	2 50

*50 strong eyes, by mail, postpaid, \$1.00.

We can furnish seconds of the Thoroughbred, Burpee, Freeman, New Queen, Sir William, Carman No. 1, and New Craig, at half the above prices. All the others are sold out. Please note that this low price on seconds does not apply to potatoes sent by mail postpaid.

THE A. I. ROOT CO., Medina, Ohio.

They came right up, and grew nicely, and, to my great surprise, wintered without any injury I could discover. In the spring they started to grow at once, and made immense great white onions long before our onions started in the greenhouse had any chance to make an onion of marketable size. We commenced selling them when they were a little smaller than hen's eggs, and kept on selling until they were three or four inches across. Of course, we got large prices for them at such an unusual time of year. The sets may be put out at any time in September, and we think at any time in October, providing frosts hold off. This new way of getting extra early onions has been a success with us more or less each season since then, but they do not give like success in all localities.

Extra Early Red. Oz. 8c; $\frac{1}{4}$ lb., 25c; lb. 90c.

ONION-SETS.

By mail 10 cents per quart extra.

Best Yellow. Qt. 15c; pk. 65c; bu. \$2.25.

Large size Yellow Danvers, one-half above prices. These are often used for pickles, but are also to be used for onion-sets; but the seed-stalks must be pulled off if they appear, if you wish them to make onions.

Best White. Qt. 20c; peck, \$1.00; bush. \$3.00.

Extra Early American Pearl. Qt. 20c; pk. \$1.25 bush., \$4.00. See American Pearl seed.

Prize Taker. Same as American Pearl.

These can be used in place of onion plants (started under glass), and they will stand very much more frost and exposure.

White Multiplier. Price 10c per pint; 15c per qt; pk. \$1; bu. \$3.50. By mail, 10c per quart extra.

These are much like the potato onion, only white like the American Pearl and are ready for market about the same time. They do not send up any seed stalk but multiply like potatoes. They are almost as hardy as the Egyptian. The small sets will produce big onions, but if you plant large or medium onions, they at once commence to break up into small onions, so from 12 to 15, so we should sort them out and plant each kind by itself.

Winter, or Egyptian Onion Sets. Prices, 5c per qt., or 35c per peck; \$1.00 per bush.

This onion does not produce a bulb at all, or at least only a very inferior one. All it is raised for is its long succulent stalks, with a sort of root, or small bulb, on the lower end. It has such an inveterate habit of growing that it grows any time when in the ground or out of it; and, in fact, almost the only place to keep it is in the ground. During August and September the sets may be gathered and sown. You can, with care, keep them over winter. The sets grow in the form of little onions, on the top of the stalk, like the old-fashioned onion-sets we used to see when we were children. We gather these sets as soon as they are ripe, say about the middle of August; then we sprinkle them in a drill, about as we would peas, say from three to five inches apart.

PARSNIP.

Improved Guernsey. Oz. 5c; lb. 25c; 10 lbs., \$2.00.

Fine grained, fine flavored, smooth. The best parsnip we have found yet.

PARSLEY.

Fine Curled or Double. Oz. 5c; lb. 40c.

PEAS.

Alaska. $\frac{1}{2}$ pt., 5c; peck, \$1.00; bush., \$3.75.

This pea is not only the earliest of any thing we have ever tried, but, as you will tell, it is also of a delicious quality, very productive, and an excellent pea in every respect, except that the pods look ready to pick before the peas inside are large enough to amount to any thing. If you pick them when they look plump and full you will disappoint your customers, and have trouble. Get careful pickers; tell them not to pick a pod until they know by squeezing it that there are good-sized peas inside, and you will then call it, as we do, ahead in quality of any other EARLY pea in the world.

American Wonder. $\frac{1}{2}$ pt. 8c; pk. \$1.60; bu. 5.00

This is a cross between the Champion and the Little Gem. The vine grows from 6 to 8 inches high. It is the first to ripen among the green wrinkled sorts. On account of its dwarf habits it can be grown very easily under glass.

Premium Gem. $\frac{1}{2}$ pt. 5c; peck, \$1.00.

Much like Am. Wonder, but taller and more productive.

Stratagem. $\frac{1}{2}$ pt. 8c; qt. 25c; pk. \$1.50; bu. \$5.

This has made its way rapidly in public favor. It is not only of rare excellence in quality, but the pods and peas are so large and fine looking they call attention at once from any thing else in the market. It has given us excellent satisfaction.

Champion of England. Pint, 10c; pk. 75c; bushel, \$2.50.

So well known as to need no recommend here.

Peas by mail will be at same rate as beans for postage.

PEPPERS.

Sweet Spanish. $\frac{1}{4}$ oz. 8c; oz. 20c.

This is not hot at all. Is used largely for pickles, to stuff with cabbage, mustard seed, etc.

Bullnose. $\frac{1}{4}$ oz. 5c; oz. 12c.

Very large, mild, but considerably hotter than the Spanish.

Cayenne. $\frac{1}{4}$ oz. 8c; oz. 15c.

Very hot. Fruit about 2 inches long.

PUMPKIN.

Early Sugar. Oz. 5c; lb. 40c.

They are much earlier than the ordinary pumpkin, sweeter for pies, and so small in size that we sell them all along in the fall at the rate of two for a nickel. In many places people will pay more for early pumpkins for pies than they will for any kind of squashes.

RHUBARB.

Myatt's Victoria. Oz., 5c; lb., 80c.

Roots, 10c each; 50c for 10; \$3.50 per 100. Small roots postpaid by mail at above prices.

RADISHES.

Early Scarlet Globe. Pkt. 5c; oz. 5c; lb. 60c.

This is the radish that Vick gave such a beautiful chromo of in his catalogue for 1888, and for forcing in the greenhouse, it is ahead of any other in the way of forcing radishes. They begin to form a bulb almost as soon as the second leaves come out. They are very hardy, and of exceedingly rapid growth.

Wood's Early Frame. Oz. 5c; lb. 40c.

The very best long radish for raising under glass, or for extra early.

Beckett's Chartier. Oz. 5c; lb. 40c.

Of rapid growth and good size, both at the bottom and top. In favorable soil it will grow to a large size, and still be excellent in quality. They are remarkably certain to make a good bulb, and stand a long while without getting corky.

Chinese Rose Winter. Oz. 5c; lb. 50c.

These not only stand cold weather until toward Christmas, but we consider them really a most delicious radish, and the most free from being corky, of any radish known. They are not as strong as radishes ordinarily are, but are of a sweet turnip flavor. Usually sown at the time we sow turnips.

SALSIFY, OR OYSTER PLANT.

New Mammoth. From Sandwich Islands. Oz. 8c; lb. 70c.

We have grown this side by side with the common salsify, and we find the roots larger, better shaped, and equally good in other respects; they are, therefore, without question an improvement. Finely grown specimens are almost as large and smooth as parsnips. Seed is of our own growing.

SPINACH.

Bloodsdale Extra Curled. Oz 5c; lb. 18c.

5 lbs. 75c.

It combines as many of the good qualities as any other.

SQUASH.

Giant Summer Crookneck. Oz. 5c; lb. 40c.

SUMMER.

This squash is as early as the ordinary crooknecks, and in every way equal; but are of such size that one squash will make a dinner, even when soft and tender; and one good thrifty plant will almost supply a family.

Hubbard. Oz. 5c; lb. 35c; 5 lbs. \$1.50.

WINTER.

There is no better winter squash than the Hubbard.

TOMATO.

Golden Queen. Pkt., 5c; oz., 15c; lb., \$2.00.

This is no special novelty, that I know of, over other tomatoes, except its beautiful, rich yellow color; but at the same time the tomato is good-sized, and remarkably smooth and regular. Not so tart as the red varieties.

Ignoutom Tomato. $\frac{1}{2}$ oz. 8c; oz. 15c; lb. \$1.50.

During the year 1889 we sent out about 3000 sample packages of the Ignoutom tomato; and the general testimony of those who have grown it corroborates the decision of the Michigan Agricultural College, that it is, all things considered, the best, and they gave it a test side by side with over 100 different varieties. There are, however, several kinds (among them Livingston's Beauty) that are rather handsomer in shape, but they are behind in size and earliness. In solidity the Ignoutom is behind none; and for slicing up for the table we have never found any thing better.

Livingston's Beauty. Oz. 15c; lb. \$1.50.

This is a production of the same Livingston who brought out the Acme, Trophy, Favorite, and Perfection; but they pronounced this superior to them all. They are better shaped and smoother than the Ignoutom, but not so large.

Dwarf Champion. oz. 20c; lb. \$2.00.

We have tried to get along without this tomato; but its earliness, uniform size, solid, thick meat, round, smooth shape, and, more than all, dwarf, compact habit of growth, permitting it to be planted as close as 2 by 3 feet apart, commends it so highly that we have concluded to offer it again, though it makes our list larger than we like.

Livingston's New Stone Tomato. Oz. 20c; lb. \$2.00. A very fine large tomato for main crop.

Fordhook Early. The best early tomato we have tested. Oz. 35c; lb. \$4.50.

Buckeye State. Oz., 20c; $\frac{1}{4}$ lb., 60c; lb., \$2.25.

Trophy Tomato. For this season (1896 only) we are enabled to make the following low prices: 1 oz., 10c; 1 lb., 75c.

Improved strain from D. Cummins, of the Lakeshore Canning Factory. He has been for 25 years making selection from the Trophy, on purpose to grow plants for his canning factory, and he prefers this strain to any of the newer or later varieties.

A large part of our seed is our own raising, from care fully selected stock.

Pear-Shaped Tomatoes. Oz. 20c; lb. \$2.50.

These are handsome for pickles and preserves. They are immense bearers, and of good quality. Small size but exactly the shape of a pear.

TURNIP.**Extra-Early Turnips.**

We have tested some of these which are advertised in the different seed catalogues; and while we find them some earlier than the staple turnips, they are, so far as we have tested them, inferior in quality, very strong in taste, and sometimes bitter.

Purple-top White-globe. Oz. 5c; lb. 40c; 5 lbs. \$1.50.

This turnip has given us the best results of any thing we tried; the quality seems to be unusually fine for table use, especially when they are about as large as fair-sized apples.

They grow nearly as quick as any other turnip known, and are very handsome. When washed they are almost as white as an egg, with a beautiful purple around the top. They are smooth and round.

Yellow Aberdeen. Oz. 5c; lb. 40c.

We consider this one the best table turnip grown. When cooked it is so yellow that it will sometimes be mistaken for squash.

Breadstone. Oz. 5c; lb. 40c.

This turnip is so much superior to any of the Swede turnips for table use, that those who ate them at our luncheon room came to me not only for turnips, but for seed to sow next year. The flesh is white, and the quality exceedingly rich and delicious.

White Egg. Oz. 5c; lb. 40c.

Very showy and handsome, as well as quite early, and fine quality.

VEGETABLE PLANTS.

These are one of our great specialties, and we are prepared to furnish cabbage, onion, and lettuce plants from the first of March till the first of August; celery-plants from the first of March till the first of September; tomato, sweet potato, and pepper plants from the first of April till the first of August.

PRICES AND VARIETIES.

ASPARAGUS ROOTS.

HENDERSON'S PALMETTO roots, 2 yrs. old, 10c for 10; 75c per 100, or \$6.00 per 1000. One-year old roots, 50c per 100, or \$4.00 per 1000.

HORSE RADISH ROOTS.

Price 5c for 10; 25, 10c; 100, 40c; 1000, \$2.00. By mail, 25c per 100 extra.

Horseradish is best propagated from pieces of root 2 to 4 inches long; these should be put in the ground at an angle of about 45 degrees, and deep enough so the tip of the cutting will be about two inches below the surface of the ground. They should have about 1 foot of space each way, and it is a good plan to put them in some corner where they will not have to be disturbed, as, when once started, they will take care of themselves, and occupy all the territory you will allow them. Can be planted any time, and do not object to a very wet place.

CABBAGE-PLANTS.

We keep in stock during the months of March, April, May, June, and July, varieties as below:

SELECT VERY EARLY JERSEY WAKEFIELD. HENDERSON'S **EARLY SUMMER**, 5c per 10; 100, 40c; 1000, \$3.00; 10,000, \$25.00. During May, June, and July, **EXCELSIOR FLAT DUTCH**, **FOOTLE'S BRUNSWICK**, prices same as above. **PERFECTION DRUMHEAD SAVOY CABBAGE**, and **LARGE RED DRUMHEAD**, 8c per 10; 60c per 100, or \$5.00 per 1000.

COLD-FRAME CABBAGE-PLANTS.

When we have these they will be double the price of the plants raised in the greenhouse. During the present season we have only one kind of cold-frame cabbage-plants; viz., extra selected **JERSEY WAKEFIELD**.

CAULIFLOWER.

We have confined our attention to the one kind—**HENDERSON'S EARLY SNOWBALL**. Price of plants, 10c for 10; 75c per 100, \$6.00 per 1000. These will be ready in March, April, May, and June.

Extra-strong plants, double above prices. These are secured by an extra transplanting, with additional room, and, as a rule, have large bushy roots. If these are to be shipped by express, the expressage will be extra, on account of the great weight of the plants.

We can send plants by mail if enough is added to cover postage and packing, which will be 5c for 10, or 25c per 100. Postage on onion plants, 5c per 100, or 40c per 1000. To Canada, double the above.

Our cabbage, cauliflower, tomato, and celery plants are transplanted once, then we wait for them to make good, strong roots before sending them out. We know this insures your getting much better plants than is possible to produce in a seed-bed without transplanting. All of the above, except sweet-potato and onion plants, will be ½ price if taken from seed-bed.

ONION PLANTS.

I, so far as I know, originated the idea of sending onion-plants by mail and express, and during the past three seasons have sold nearly a million of plants. We send them out March, April, and May, and the prices are 15c per 100; \$1.00 per 1000, or \$7.50 for 10,000. Four kinds are grown, **AM. PEARL**, **YELLOW DANVERS**, **WHITE VICTORIA**, and **PRIZETAKER**.

LETTUCE-PLANTS.

We can furnish **BOSTON MARRET**, **GRAND RAPIDS**, and **HENDERSON'S NEW YORK**. Prices, 5 cts. per 10; 40 cts. per 100; \$2.50 per 1000.

TOMATO-PLANTS.

These will be ready from April first till August first. We have the following varieties:

LIVINGSTON'S BEAUTY, **IGNOTUM**, **DWARF CHAMPION** and **GOLDEN QUEEN**. The above will be 10c for 10; 75c per 100; \$6.00 per 1000; or \$50.00 per 10,000.

PEAR-SHAPED TOMATOES, for pickles and preserves, 8c for 10, or 75c per 100.

CELERY-PLANTS.

We keep in stock **HENDERSON'S WHITE PLUME**, **GOLDEN DWARF**, **GOLDEN SELF-BLANCHING**, **GIANT PASCHAL**, and **NEW ROSE**. Prices, 5c per 10; 40c per 100; \$3.00 per 1000; or \$25.00 per 10,000.

PEPPER-PLANTS.

We expect to keep in stock **BULLNOSE**, **CAYENNE**, and **SPANISH PEPPER**. The price will be 15c for 10; \$1.25 per 100, or \$12.00 per 1000.

SWEET-POTATO-PLANTS.

Same price as celery-plants; ready May 1st. Plants of the two varieties of vineless Sweet Potato, viz., **Gen. Grant** and **Bunch Yam**, will be ½ more.

Plants are secured by an extra transplanting, with additional room, and, as a rule, have large bushy roots. If these are to be shipped by express, the expressage will be extra, on account of the great weight of the plants.

We can send plants by mail if enough is added to cover postage and packing, which will be 5c for 10, or 25c per 100. Postage on onion plants, 5c per 100, or 40c per 1000. To Canada, double the above.

Our cabbage, cauliflower, tomato, and celery plants are transplanted once, then we wait for them to make good, strong roots before sending them out. We know this insures your getting much better plants than is possible to produce in a seed-bed without transplanting. All of the above, except sweet-potato and onion plants, will be ½ price if taken from seed-bed.

STRAWBERRIES.

With the multitude of new and exceedingly good berries before us at the present date, it is a very hard matter to make a selection of only a few kinds; but, as with garden seeds, I can not consent to cumber myself nor my patrons with a long list of varieties. I am testing most of the new kinds, and I may, perhaps change my list somewhat from time to time, but for the present I have decided to offer only **JESSIE**, **PARKER EARLE**, **MICHEL'S EARLY**, **WARFIELD**, **BUBACH**, **EDGAR QUEEN**, **TIMBRELL**, and **HAVERLAND**. The five last are pistillate, so you need at least one-fourth of the number of the others to put among them—or, say, every third row **Jessie**, **Parker Earle**, or **Michel's Early**. We prefer the **Jessie** for a fertilizer, because it has such a long season and such an abundance of blossoms. **Michel's Early** is good to fertilize the very early blossoms, and **Parker Earle** for the very late blossoms. **Michel's Early** is the earliest berry we are acquainted with at present. The quality is very good, but it does not produce nearly as many berries as some of those that are a little later. The **Edgar Queen** produces enormous quantities of excellent berries, but the shape is very irregular. The **Timbrell** would be almost without a fault were it not that the berries are ripe before it is colored all over; and a good many times the berry is of a mottled white, looking as if it were unripe, which hurts the sale of it. The **Bubach** furnishes large berries in great abundance; but during a wet season they are liable to rot, as they are pretty soft. The **Parker Earle** is a large, handsome, very late berry. The **Haverland** is wonderfully productive, stands frost remarkably, but is not the best in quality. The **Warfield** is of a fine dark color, good shape, rather tart, but stands frost remarkably well.

The above description is as near as I can come to advising what is the best berry to plant. There isn't any best. Some are best on certain points, and some are best on other points. For instance, the **Jessie** gives excellent satisfaction in our locality; but in many places it does not seem to answer at all.

Our prices are 15 cts. for 10 plants; 75 cts. per 100, or \$6.00 per 1000. If wanted by mail, add 5 cts. for 10, or 25 cts. per 100, for postage. To Canada, double the foregoing. We can furnish strawberries from March till November, inclusive.

SEED POTATOES.

Prices up to May 1, 1896.

Seed Potatoes to be Given Away.

As the planting season is now upon us, and we have quite a stock of a good many kinds of potatoes left, and as some of them will probably have to be given away, we prefer to give them to our subscribers rather than to anybody else. Therefore, whoever sends us \$1.00 for GLEANINGS, whether it is to pay up arrearages or subscribe for the future, may select \$1.00 worth of potatoes from our list for every dollar that is sent us for GLEANINGS, as long as the supply holds out, you prepaying all postage, express, or freight. This includes *Maule's Early Thoroughbred* with the rest, for we have now a crop almost ready to dig, in the greenhouse, and lots more coming on all the time in cold-frames outdoors. Perhaps you had better name several varieties when you order, telling which ones you prefer, so that, in case any one variety is sold out, we can send you the next you prefer. We have yet a good stock of Freeman, New Queen, Monroe Seedling, and New Craig; a tolerable stock of Lee's Favorite and Early Ohio. All the rest are gone but small lots. We submit the table with reduced prices.

Season of maturing in order of table, the first named being the earliest.

NAME.	1 lb. by mail.	3 lbs. by mail.	½ peck.	Peck.	½ bushel.	Bushel.	Barrel—11 pk.
White Bliss Triumph	\$ 20	\$ 50	\$ 50	\$ 90	\$1 50	\$ 2 50	\$ 6 00
Second crop	15	35	20	30	50	1 25	
Early Ohio	15	35	20	30	50	1 25	
E. Thoroughbred, Maule's	1 70	3 00	3 00	5 00	7 50	12 50	25 00
Burpee's Extra Early	15	35	20	35	60	1 00	2 50
Freeman	15	35	20	30	50	1 25	
Lee's Favorite	12	35	20	25	30	50	1 25
New Queen	15	35	20	20	30	50	1 25
Monroe Seedling	12			20	30	50	1 25
Beauty of Hebron	12			15	20	35	1 00
State of Maine	12			15	20	35	1 00
Sir William	15	35	20	35	60	1 00	2 50
Rural New Yorker	12			20	30	50	1 25
Carman No. 1	15	35	20	35	60	1 00	2 50
Carman No. 3	40	1 00	40	75	1 25	2 00	4 50
Irish Daisy	12			20	30	50	1 25
Manum's Enormous	40	1 00	40	75	1 25	2 00	4 50
New Craig	15	35	25	45	75	1 25	3 00

Seconds of Lee's Favorite and New Craig (other kinds sold out) will be half above prices, which include packages for shipping. Potatoes will be shipped at once, soon as order is received, so long as our stock holds out.

The question may arise, Will the new Thoroughbred grow if the potatoes are sent out just after they have been dug in the greenhouse? They may not grow as readily, therefore you had better keep them until they begin to sprout; then cut them to one eye and plant, and you will have a full stand. If you have a preference for the old potatoes harvested last fall, we will send them if your order reaches us before they are all planted.

P. S.—If you prefer, order what potatoes you want from the above table, and we will send GLEANINGS one year for every dollar you invest in potatoes. Where there will be a saving in freight, the new Craigs may be shipped from C. N. Flansburgh, Leslie, Mich.

Description of Varieties.

THE EARLY OHIO is too well known to need describing. For many years it has been called the earliest potato; but in many localities of late the yield has been poor. On our place it is more apt to be scabby than a most any other potato.

MAULE'S EARLY THOROUGHbred.—This just now, all things considered, seems to promise better than any other potato known. It is almost as early as the Early Ohio, and yields enormously. T. B. Terry, by request of the originator, Wm. Henry Maule, tried it right out in the field, giving it the same care and attention, no more and no less than the whole field of 30 or 40 acres. The growth of tops was nothing to indicate any thing remarkable; but when he came to dig them the yield was so much beyond any

thing else in the field that it at once called forth exclamations of astonishment from every one who saw them. I paid him a visit expressly to see them, shortly after they were dug. The entire crop is at present controlled by Wm. H. Maule. We are at liberty to sell them for less than the prices he has put on them as above.

THE FREEMAN.—This stands at the head, so far as quality is concerned. It ripens about with Burpee's; but without special soil or culture, especially in many localities, it is not a heavy yielder.

LEE'S FAVORITE originated in this vicinity. It is medium early, and has given a yield as high as 300 bushels per acre on our own premises.

NEW QUEEN.—This is almost equal in quality to the Freeman, and is a much heavier yielder. Our whole crop of New Queen and Freeman was raised by T. B. Terry; in fact, we bought his entire output. He thought enough of these two kinds so that his whole farm was planted to Freeman and New Queen.

MONROE SEEDLING is a standard variety. It comes off early enough to put in wheat, and a great many of the large potato-growers in Northern Ohio like it better than any other for a main crop. Our seed was raised by Wilbur Fenn, of Tallmadge, O. The potatoes were planted the day after the 4th of July. By being raised so late in the season they will keep, without sprouting, far into the summer, and are almost as valuable for potatoes to plant as the real "second crop" of the South.

BEAUTY OF HEBRON is so well known I need not describe it. T. B. Terry used to prefer it to any thing else for a potato to come off before sowing wheat.

STATE OF MAINE.—This is another of the great standard potatoes. In our immediate neighborhood one field of about 40 acres gave toward 300 bushels per acre; and, even though the crop was sold for about 20 cts. a bushel the grower came out quite successfully.

SIR WILLIAM.—This is the potato that has been so strongly recommended by W. I. Chamberlain, of Hudson, O.; and our Ohio Experiment Station has placed it almost at the top of the heap of all the varieties tested for an all-purpose table potato.

RURAL NEW-YORKER.—This is so well known as to hardly need describing. Thousands of farmers have succeeded with this in getting large crops of nice fine potatoes, when they could not succeed on their soil with scarcely any other variety.

CARMAN No. 1.—This is much like the Rural, but is said to be a larger yielder, and of little finer quality.

NEW CRAIG.—In 1894, one single potato gave me a plump bushel of beautiful fine potatoes, entirely free from scab, though planted on scabby ground. During the season of 1895 I secured over 400 bushels to the acre, and, like the season before, there was practically no scab, no blight, and the potatoes grew so rank and strong that the bugs had but very little effect on them. We planted them May 10th, and they grew rank and strong until killed by frost. On our soil it gives the largest yield of any potato I have ever tested. In picking them up we easily selected 40 potatoes that made a heaping bushel. Below we give photographs of same.



FORTY POTATOES OF THE CRAIG SEEDLING.

* This offer is made May 1st, 1896, and will probably last not later than July, 1896, although we are going to try to keep Freeman, New Craigs, and Monroe Seedlings until into July; last season we secured good crops of all these (especially the latter), planted after July 4th.

SEEDS OF HONEY-PLANTS.

I have for years had dreams of a honey farm, with acres of flowers of different colors, blooming at different seasons, and keeping the bees away from the stores and groceries when we have a dry spell in the fall. The dream has been partially realized with the Simpson honey-plant, Mollie O. Large's spider plant, and the seven-top turnip, but I am pretty well satisfied it will not pay to cultivate these for honey alone. Mignonnette, catnip, motherwort, borage, mellilot, and some others, I have tested, but I am quite sure that none of them have ever paid, just for the honey.

We first give a list of the plants that not only yield honey, but are profitable crops for their other products. If the bee-keeper can not raise these himself, he can often induce farmers round about him to do the same by furnishing the seed free, or (where it is expensive) part of the price of the seed. As an illustration: We have for years been in the habit of furnishing buckwheat seed free of charge to any one who will sow it within a mile and a half of our apiary. Alsike, white Dutch clover, and Mammoth (or Peavine) we furnish at half the usual price. Now, then, friends, which is the most important honey-bearing plant, generally speaking, in the world? I am inclined to think that basswood (or linden) bears the largest quantity of honey, although it is not generally considered quite equal to clover in flavor; for in the honey-markets it usually sells for one cent per pound less than clover. We, however, put basswood first and clover second.

Basswood-trees.	Per 10	Per 100
One foot and under, each, -	.05	.30
The above by mail, -	.08	.35
One to five feet, " -	.10	.75
Five to ten feet, " -	1.15	1.25
Ten to fifteen feet, " -	2.50	2.00

These will be taken directly from our nursery, and if planted any time after the leaves have fallen, until the ground freezes, not one in one hundred should fail to grow. They can also be planted during the months of March, April, and May; and spring planting is preferable. For a description of the basswood, with engraving, see A B C. Basswoods may be planted along the roadsides so as to answer for shade-trees, and at the same time furnish honey. The bee-keeper can also usually arrange so as to get them planted for shade along the streets of towns and cities. We can furnish the basswood-seeds if desired; but as they require special treatment I think our friends will be much better satisfied to buy little trees.

Reduced Prices of Seeds of Honey-plants.

The prices given below are only for prompt orders, for the market fluctuates so, on clover seeds especially, that we can not promise these prices to continue.

Alsike Clover. One ounce, by mail, 5 cts.; 1 lb., by mail, postpaid, 25 cts.; by express or freight, 1 lb., 15 cts.; one peck, \$1.60; $\frac{1}{2}$ bushel, \$3.00; bushel, \$5.50.

This furnishes not only the best honey of any plant in the world, letting the majority judge, but the quality of the plant for feed for cattle, whether for pasture, is probably better for milk-producing than any other forage-plant. It can be sown almost any time, but perhaps gives best results for seed, when sown in March or April. About 6 to 8 lbs. are required per acre, and it does not blossom much until the second year. Its treatment and cultivation are much the same as for common red clover, but the seed is saved from the first crop. We know our seed to be fresh, and free from dangerous seeds.

Medium Clover, same as alsike.

White Dutch Clover. Bushel, \$12.00; $\frac{1}{2}$ bu., 6.50; pk. \$3.50; 1 lb., 25c; lb. by mail, 35c.

This differs but little from the ordinary white clover. It has an advantage over alsike, inasmuch as it will scatter itself without cultivation, and it grows along the roadsides, pastures, and all waste places.

Peavine, or Mammoth Red Clover. Bushel, \$5.50; $\frac{1}{2}$ bu., \$3.00; pk., \$1.60; per lb., 15c; by mail, 10c per lb. extra.

This yields honey late in the season after all other clovers, and, in fact, after basswood; and in some localities it rarely fails to give more or less of a crop, especially where Italian bees are kept. In other localities there have been complaints made that the bees would not work on it.

Alfalfa, or Lucerne. Per bush., \$7.00; $\frac{1}{2}$ bush., \$3.75; peck, \$2.00; pound, 15 cts. By mail, 10 cts. per lb. extra.

This is the great honey-plant of Arizona, Idaho, California, and other Western States and Territories. Where it is raised by irrigation in fields of a thousand acres or more, there is an almost continuous honey-flow from spring until winter. In fact, it produces each season the most beautiful honey, not only by the ton, but by the carload. In Sept. 1892, we received from W. K. Ball, Reno, Nevada, a carload of the finest comb honey made from alfalfa, ever put on this or any other market. Little patches have, at least partially, succeeded in the Eastern States. In dry seasons it will succeed, without a doubt, but much less detrimental. On our grounds it stands winter without injury, and we have found the roots at a depth of several feet. We furnish purchasers a little circular in regard to its cultivation.

Crimson or Scarlet Clover. Two-bushel sack, \$6.50; per bushel, \$3.40; half-bushel, \$1.75; peck, 90 cts.; pound, 10 cts. If wanted by mail, add 10 cts. per lb. extra for postage and packing. We will send 3 lbs. by mail, postpaid, for 50 cts. From 8 to 15 lbs. of seed are needed per acre.

It is a little singular that this plant, after having been in this list of seeds of honey-plants for upward of ten years, without eliciting very much attention, has, within a couple of years past, not only come up into great prominence as a honey-plant, but it even bids fair to take the lead among the clovers of any in common use, simply from the fact that, when sown in the fall early enough to get well rooted, and yet not so early as to send up blossoms, it will stand av-

erage winters without injury, even as far north as Northern Ohio. At the present writing, March 1, crimson clover is eliciting more attention among farmers generally than almost any other plant that has ever been introduced. It is equal to any clover for hay, and comes in a little earlier in the spring than any other. It is as valuable as red clover to plow under, and yet it may be sown among growing corn at the last cultivating, and be ready to plow under in time to put another corn crop on the same ground the very next year. It is cheaper than manure, on most farms; for a heavy growth plowed under has been called equivalent to ten tons per acre of the best stable manure. It also promises to be a boon to bee-keepers.

Sweet Clover (*Melilotus alba*, or *Mellilot*.) Also called *Bokhara*. Per lb. by mail, 20c; 10 lbs. or more, 8c per lb.; 100 lbs., 7c per lb.

Sweet clover, hulls off, 5c per lb. additional. As there are a great many more seeds in a pound of this latter, it may be as cheap, even at this advance price.

This has some valuable traits, as standing frost and drought, but many times and seasons, the bees will hardly notice it at all. About four pounds of seed are needed for an acre. Sow like Alsike. It will grow on almost any barren hillside, but it is a bad weed to exterminate; if, however, it is mown down to prevent seeding, the roots will soon die out. Sow in spring or fall. In the vicinity of Salt Lake, Utah, sweet clover is the main honey-plant, and the quality of the honey is equal, in point of purity, to any in the world. The plant lives through the dry summers in Utah.

Buckwheat, Japanese. Trial packet, 4 ounces; by mail, postpaid, 5c.; 1 lb. by mail, postpaid, 15c; peck, 25c; $\frac{1}{2}$ bush., 50c; bush., \$80c; 2 bush., \$1.50. These prices include bag to ship it in. Ten or more bushels, purchaser paying for bags, 65c.

We should place buckwheat at the head of the list were it not for the fact that it often fails, almost, if not quite, to yield honey; and the quality of the honey is always second class and the color is dark. At the present time the Japanese has so far outstripped all other varieties that we have dropped them entirely from our list. It makes much stronger growth than the old kinds, gives a much larger yield of grain, and also matures its seed a little earlier. During the past season the yield has been so great as to put buckwheat flour as well as grain at a lower price than it has been known before for years. We have an 8 page pamphlet, being a collection of articles from different localities, telling just how to raise buckwheat. Mailed for 5c., or given free to all purchasers of our seed. Please notice that buckwheat can not very well be sent ALONE BY ITSELF, either by mail, freight, or express, without the expense of shipment being more than the value. If you want a peck, or half a bushel, it should be ordered by freight with other goods, unless you are willing to pay more than the seed is worth, in the way of charges.

Rape. Oz 5 cts.; lb. 15 cts.; 10 lbs. or over, 6 cts. per lb.; 100 lbs., \$5.00. By mail, 9 cts. per lb. extra.

The above rape is for blossoms and seed; although it is sometimes sown for forage it is by no means equal to the Dwarf Essex.

Where rape is used for making oil, it often yields a considerable quantity of honey. In most localities, however, it is liable to be destroyed by the black flea, if sown earlier than July. It is sown like turnip, and about 15 lbs. of seed is enough per acre. It may blossom in four weeks after being sown, and stay in blossom four weeks longer.

Dwarf Essex Rape. 1 lb., mail, postpaid, 20c; freight or express, 50 lbs., 9c; per lb.; 100 lbs., \$8.00.

This plant has been rapidly coming to the front in the last few years as a forage-plant, especially for sheep and lambs. It may be sown in May, June, July, or August; and at our Ohio Experiment Station it gave from 8 to 12 tons per acre in 90 days after planting. Like other new forage-plants, stock must be taught to eat it. It is a splendid thing to put on after early potatoes. After the first cutting or eating off it will start again; and it is so hardy that it will grow until the ground is frozen several times, giving feed even as late as the middle of December, in our locality. It possesses remarkable fattening qualities. An acre of it will feed over 30 sheep for a month. Directions for raising will be mailed free on application.

Cow Peas. The stock pea of the South. Postpaid by mail, 1 lb., 15c; pk. 40c; $\frac{1}{2}$ bu., 75c; bu., \$1.25. Much interest has been manifested in this stock pea of late, both for fodder and for sowing under. The big seed also furnishes considerable quantities of honey in localities where they are raised largely. The above price is for the variety called Wonderful or Whippoorwill. We can furnish the clay and mixed peas in bushel lots at \$1.00. In quantities of one bushel or more they can be shipped direct from Goldsboro, N. C.

Seven-top Turnip. Oz. 5c; lb. 20c; 10 lbs. \$1.50. If wanted by mail, 10c per lb. extra.

This plant, although not equal to the Spider plant and the Simpson honey plant, is entitled to a place next to them, because it bears its crop of honey in the spring, between fruit blossoms and clover. It should be sown in Aug. and Sept. It bears no root like the ordinary turnip, but only foliage that is used for greens. Excellent for plowing under.

Kafir Corn or non-saccharine sorghum. 1 lb., by mail, 15c; pk., 40c; ½ bu., 60c; bu. (50 lbs.), \$1.00. An excellent fodder-plant for dry seasons, or in localities where there are long periods without rain.

Sunflower, Mammoth Russian. Oz. 5c; lb. by mail, 15c; 10 lbs. or over, by freight or express, 5c per lb.; 100 lbs., 4c per lb.

This plant is visited by the bees in great numbers in some localities, while in others it is scarcely noticed; but, as the seeds usually pay all expenses of cultivation, it holds its place as a honey-plant. The mammoth Russian bears by far the largest blossoms, as well as the largest seeds.

Soja Bean (American coffee-bean). Price, pt., 10c; pk., \$1.00; bu., \$3.00. About 1 bu. (60 lb.) is needed per acre.

For description see article by Prof. Green in GLEANINGS, page 188—March 1st, 1896.

Raspberry.

Raspberries are, without doubt, one of our best honey-plants, especially red raspberries. For plants, write W. R. Grannis, Lodi, O.

Gault Raspberry.

This new berry is now now attracting so much attention that we have a special circular in regard to it which will be mailed on application.

The above are the only plants I know of that can be profitably grown by the bee-keeper; that is, the honey they yield would probably pay, in connection with the profit on the plant for other purposes.

The following plants yield honey, and many of them in considerable quantities; but they are so little used for other purposes that there is little inducement to raise them by the acre; and let us bear in mind that it must take acres of any plant to yield honey enough to amount to any thing.

Borage. Oz. 10c; lb. \$1.40; if wanted by mail, add 10c per lb. extra.

A strong herb, rapidly growing plant, bearing a profusion of blue flowers. It may be sown any time, but will, perhaps, succeed best, at about corn-planting time. As it grows tall, and branches out considerably, it should have plenty of room. I know that bees are very busy on it, all the day long, from July until Nov., but I do not know how much honey an acre of it would furnish. It is easily tried, because it grows so readily, and if sown on the ground after early potatoes are dug, you will get a nice crop of fall bloom. Sow broadcast, or in hills like corn. Borage is also used as a salad, or cooked as spinach.

Catnip. Oz. 10c; lb. \$1. If wanted by mail, add 10c per lb. extra.

This has been very much talked about, and we have record of some experiments with an acre or more; but, if I am correct, only a few have ever yet seen a barrel of catnip honey. Sow in the fall.

Dandelions. Package 5c; oz. 50c.

I presume everybody can get dandelion seeds and roots without buying them, but for all that, I have much faith in an acre of cultivated dandelions. French thick-leaved is superior for "greens," and by the way our bees take to our "patch" of it, I think it must be superior for honey.

Motherwort. Prices same as for catnip.

Figwort, or Simpson Honey-plant. Oz. 20c; lb. \$2. By mail, 10c per lb. extra, for postage.

This is a queer tall weed that grows in fields and woods and bears little cups full of honey. It bears honey all the day long from July to October. Very hardy; blooms first year, and after that shoots up from the root every year, but needs planting anew about every three years. The seed sometimes lies in the ground many months before germinating. If sprinkled on the top of damp leaf-mold, packed hard in a box, and rolled hard, being kept dark and damp in a warm place, they will shoot in a week and then give all the light and air possible, but not too much water.

Mignonnette. Oz. 10c; lb. \$1; by mail, add 10c per lb.

This is a great favorite with the bees, and also with those who are raising plants for their bees; but although we have sold considerable of the seed for bee pasturage, I am not sure that any one has ever made it pay in dollars and cents, for the honey alone.

Mustard. Common (either white or black), lb. 15c; oz. 5c. Add 10c per lb., if to be sent by mail.

The honey from this is said to be very light, equal to any in flavor, and to command the highest price in the market.

Portulaca. 5c per package.

Best mixed. A bed of portulaca, say a rod square, will show more bees in the working season, for the area, than any other plant I know of; furthermore, a bed of mixed portulacas, equivalent to a square rod, makes one of the handsomest, if not the handsomest of sights, when in full bloom, the whole floral kingdom affords. It does not seem to me that any bee-keeper ought to be without a bed; and I might also say, no lover of flowers can well afford to forego the gorgeous spectacle of a bed of mixed portulacas, especially when the seed is only 5 cents a paper. One paper will cover a square rod of ground nicely. You can have the square rod laid out in artistic beds and walks, if you choose.

Rocky Mountain Bee-plant *Cleome integrifolia*. Per lb. \$1.25, postage 10c extra; oz. 15c.

This is closely connected with the noted Spider plant (*C. pungens*), these two being the only species of the *Cleome*. With us, it is much inferior to the Spider plant as a honey producer. We have reports from some localities of its yielding large quantities of honey, hence quite a demand for the seed is the result.

Sage, White (*Salvia argentea*). Oz. 35c; lb. \$4.

It is called the honey-plant of California, and belongs to the Labiate or Mint family, the same as Rosemary, Balm, Hoarhound etc.

Cærulea, Bee Clover. Oz. 10c; lb. 75c; by mail add 10c, for bag and postage.

This latter blossoms in about six weeks after sowing, and bears a small blue flower.

Spider Plant. Package 5c; oz. 20c; lb. \$2. Postage 10c per lb. extra.

This plant under favorable circumstances, yields more honey than any thing that ever before came under my observation. In Oct., 1879, each floweret yielded drops so large that a bee had to make two or more journeys to get it all, and I succeeded in dipping the honey from the plant with a spoon, until I had filled a bottle with it, for experiment. As it yields only this honey early in the morning and late in the evening, it will go nicely with the Simpson honey-plant. I should think it quite probable that 5 acres of each of these plants would keep 100 colonies busy enough to be out of mischief during a dry fall when bees are apt to be wanting. For particulars concerning both plants, see A B C of Bee Culture. The Spider plant is an annual, and should be sown every year. It grows most quickly with hothead treatment, but will blossom in August if sown in the open ground in May.

Chapman Honey-plant. Packet 5c; oz. 20c.

The large globular blossoms exude pure honey, and if inclosed in a paper bag so the bees are kept away the blossoms will become quite sticky with the honey.

Any of the above seeds will be sent in 5c packages, to those who would like just a few to try.

MISCELLANEOUS.

Galvanized Wire Cloth.

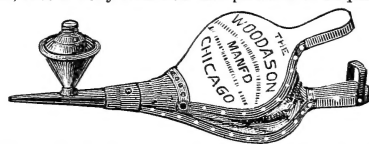
Four and eight meshes to the inch. Per sq. ft., 10c; 10 ft., 85c; 100 ft., \$7.50. Suitable for outlets to carp-ponds, sieves, drying fruit, etc. By mail, 10c per square foot for postage.

Paper Seed-bags.

Large size, to hold ounces, \$1.50 per 1000, or 20 cts. per 100. Medium size, to hold ordinary packets, \$1.35 per 1000, or 18 cts. per 100. Small size, for very expensive seeds, \$1.15 per 1000, or 15 cts. per 100. If wanted by mail, add for postage, 5, 8, and 10 cts. per 100 respectively. The same printed to order (not to exceed 50 words), 25 cts. per 100, or \$1.00 per 1000.

Pyrethrum Roseum.
(*Persian Insect-Powder*.)

This is not only a pretty plant for the flower garden, but the flowers, gathered and dried when in full bloom, and then finely powdered, furnish us the Persian insect-powder, of which so much has been said. With us it has been the surest thing to kill all sorts small insects, laying them out dead in even a few minutes, of any thing we have ever got hold of. It will also kill the green fly in greenhouses. When used in the insect-powder bellows, shown below, but a very little of the powder is required.



INSECT-POWDER BELLOW; PRICE \$1.00; 6x18 IN.

With the above instrument you can kill every fly in any room of the house, within an hour. Of course, the doors and windows of the room should all be closed. In painting new houses in the summer time, when flies are troublesome, the instrument is worth more than it costs, for this alone. It is not at all poisonous or injurious to human beings.

Price of the powder, all ready for use, one ounce, 5 cts.; ¼ lb., 10 cts.; 1 lb., 35 cts.; 10 lbs., \$3.00. Price of the seeds, one packet, 5 cts.; one ounce, \$1.00; 1 lb., \$10.00. By mail, 18c per lb. extra on powder, and 9c on the seeds.

Blue Vitriol and Paris Green.

Blue vitriol (sulphate of copper), 4 lbs., 25 cts.; 50 lbs. or more 6 cts. per lb.; barrel, 450 lbs., 5 cts. per lb. Paris green is such unpleasant stuff to handle that we prefer to sell it only in original packages. These are put up securely, and may be shipped without injury, as follows: 4-oz. packages, 7 cts. each; ¼-lb. packages 12 cts. each; 1-lb. tin cans, 22 cts.; cans holding either 2 or 5 lbs., 20 cts. per lb.; 14 lbs. at 19 cts.; 28 lbs., 18½ cts.; 56 lbs., 17½ cts., and 100 lbs. at 17 cts. per lb.

TOBACCO DUST.

This is sprinkled over the foliage, and on the ground around lettuce in the greenhouse or on melon and other vines just as they are coming up, and is one of the best and cheapest insecticides known. One lb. by mail, 20 cts.; 5 lbs. by express or freight, 3 cts. per lb.; 10 lbs., 2½ cts. per lb.; 25 lbs. 2 cts. per lb. 100 lbs., \$1.75.

PUTTY-BULB.

For setting glass for greenhouses, for repairing sash, etc. This is a rubber bulb, with nozzle, for running liquid putty along where the glass lies in the sash. No person who has half a dozen sash should be without one. Full instructions for preparing the putty, with each. With a little different arrangement the above makes the nicest kind of powder-gun for using a small quantity of pyrethrum, or insect powder. In ordering, please state which purpose you wish it for. Price 15 cts; postage 5 cts.

PERUVIAN GUANO.

One pound, 5c; 5 lbs. or more, 4c per lb.; 25 lbs. or more, 3½c per lb.; 100 lbs., \$3.00; 200-lb. bag, \$5.00.

**GOODS ESPECIALLY FOR POULTRY RAISERS.
PURE BONE MEAL.**

Coarsely ground, expressly for poultry. Per lb., 5 cts.; 2½ lbs., 3 cts. per lb.; 10 lbs., 2½ cts. per lb.; 100 lbs., 2½ cts. per lb.; by the bag of 100 lbs., \$2.00; 200 lbs., \$3.75. Fowls will eat this almost as greedily as corn; and it not only furnishes material for egg-shell, but it gives them considerable animal matter besides. Excellent for laying hens. It is sure cure for thin-shell eggs.

Bone meal ground fine, for gardening purposes, same price as the above.

NEST-EGGS. polished wood, each 2c; 10, 15c; 100, \$1.25. Postage 3c each.

BOOKS ON GARDENING, FARMING, &c.

Figures on the left hand indicate amount of postage to be added when books are to be sent by mail.

I have indicated my opinion of the books by characters as follows: *Books that I approve I have marked with a *; those I especially approve, **.

5 | **Tile Drainage, by W. I. Chamberlain**** 35
Fully illustrated, containing every thing of importance clear up to the present date.

The single chapter on digging ditches, with the illustrations given by Prof. Chamberlain, should alone make the book worth what it costs. To every one who is anxious to lay ten rods or more of tile, there is as much science in digging as in doing almost any thing else; and by following the plan directed in the book, one man will often do as much as two men without this knowledge. The book embraces every thing connected with the subject, and was written by the author while he was engaged in the work of digging the ditches and laying the tiles HIMSELF, for he has laid literally miles of tile on his own farm in Hudson, O.

5 | **Tomato Culture****..... 35

In three parts. Part first,—by J. W. Day, of Crystal Springs, Miss., treats of tomato culture in the South, with some remarks by A. I. Root, adapting it to the North. Part second, by D. Cunningham, of Concord, O., treats of tomato culture especially for canning-factories. Part third,—By A. I. Root, treats of plant-growing for market, and high pressure gardening in general. This little book is interesting because it is one of the first rural books to come from our friends in the South. It tells of a great industry that has been steadily growing for some years past; namely, tomato-growing in the South, to supply the Northern markets. The little book, which is fully illustrated, gives us some pleasant glimpses of the possibilities and probabilities of the future of Southern agriculture. Even though you do not grow tomatoes to any considerable extent, you will find the book brimful of suggestions of short cuts in agriculture and horticulture, and especially in the line of market-gardening. Price 35 cts. By mail, 40 cts.

3 | **A B C of Potato Culture, Terry****..... 35

This is T. B. Terry's first and most masterly work. The book has had an enormous sale, and has been reprinted in foreign languages. When we are thoroughly conversant with friend Terry's system of raising potatoes, we shall be ready to handle almost any farm crop successfully. It has 48 pages and 22 illustrations.

3 | **An Egg Farm, Stoddard**** 45

No matter whether you raise eggs on a large scale or a small scale, you can not afford to miss reading friend Stoddard's book. I do not offer that I ever got hold of any piece of fiction—not even Robinson Crusoe, that so thoroughly fascinated me as these chapters in regard to raising poultry on a large scale. The work has 49 pages and 42 illustrations.

7 | **Farm, Gardening, and Seed Growing****..... 90

This is by Francis Brill, the veteran seed-grower, and is the only book on gardening that I am aware of that tells how market-gardeners and seed-growers raise and harvest their own seeds. It has 165 pages and 12 illustrations.

1 | **Our Farming, by T. B. Terry****..... \$2.00
In which he shows how we have made a run-down farm bring both profit and pleasure.

This is a large book, 6x9 inches, 367 pages, quite fully illustrated. It is Terry's first large book; and while it touches on the topics treated in his smaller handbooks, it is sufficiently different so that no one will complain of repetition, even if he has read all of Terry's little books. I should call it the brightest and most practical book on farming before the world at the present day. The price is \$2.00 postpaid; or clubbed with GLEANINGS for 2.50. Those who are already subscribers to GLEANINGS may have it postpaid by sending us 1.50 more. We are so sure it will be worth many times its cost, that we are not afraid to offer to take it back if any one feels he has not got his money's worth after he has read it. If ordered by express or freight with other goods, 10c less.

10 | **Fuller's Grape Culturist****..... 1 40

2 | **Rats: How to Rid Farms and Buildings of them, as well as other Pests of like Character****..... 15

2 | **Celery for Profit, by T. Greiner****..... 25

The first really full and complete book on celery culture, at a moderate price, that we have had. It is full of pictures, and the whole thing is made so plain that a schoolboy ought to be able to grow paying crops at once, without any assistance except from the book.

3 | **Maple Sugar and the Sugar-bush, by Prof. A. J. Cook***..... 35

8 | **Domestic Economy, by I. H. Mayer, M. D.**** 60
This book ought to save at least the money it costs, each year, in every household. It was written by a doctor, and one who has made the matter of domestic economy a life-study. The regular price of the book is \$1.00; but by taking a large lot of them we are enabled to make the price only 60 cts.

10 | **Farming for Boys****..... 1 15

This is one of Joseph Harris' happiest productions, and it seems to me that it ought to make farm-life fascinating to any boy who has any sort of taste for gardening.

10 | **Gardening For Pleasure, Henderson*** 1 40

While "Gardening for Profit" is written with a view of making gardening PAY, it touches a good deal on the pleasure part, and "Gardening for Pleasure" takes up this matter of beautifying your homes and improving your grounds, without the special point in view of making money out of it. I think most of you will need this if you get "Gardening for Profit." This work has 246 pages and 134 illustrations.

12 | **Gardening for Profit** New Edition** 1 85

This is a late revision of Peter Henderson's celebrated work. Nothing that has been published before has done so much toward making market-gardening a science and a fascinating industry. Peter Henderson stands at the head, without question, although we have many other books on these rural employments. If you can get but one book, let it be the above. It has 376 pages and 138 cuts.

10 | **Gardening and Farm Topics, Henderson***..... 75

10 | **Greenhouse Construction****..... 1 40

This book, by Prof. Taylor, is just out, and is as full and complete in regard to the BUILDING of all glass structures as is the next book in regard to their management. Any one who builds even a small structure for plant-growing under glass will save the value of the book by reading it carefully.

15 | **How to Make the Garden Pay****..... 1 35

By T. Greiner. This is a new book, just out, and it gives the most explicit and full directions for gardening under glass of a book in the world. Those who are interested in hot-beds, cold-frames, cold-greenhouses, hot-houses, or glass structures of any kind for the growth of plants, can not afford to be without the book.

8 | **Gardening for Young and Old, Harris**** 90

This is Joseph Harris' best and happiest effort. Although it goes over the same ground occupied by Peter Henderson, it particularly emphasizes thorough cultivation of the soil in preparing your grounds, and this matter of adapting it to young people, as well as to old is brought out in a most happy vein. If your children have any sort of fancy for gardening it will pay you to make them a present of the book. It has 187 pages and 46 engravings.

5 | **Gregory on Cabbages; paper***..... 25

5 | **Gregory on Squashes; paper***..... 25

5 | **Gregory on Onions; paper***..... 25

The above three books, by our friend Gregory, are all valuable. The book on squashes especially is good reading for almost anybody, whether they raise squashes or not. It strikes at the very foundation of success in almost any kind of business.

3 | **Onions for Profit****..... 45

Fully up to the times, and includes both the old onion culture and the new method. The book is fully illustrated, and written with all the enthusiasm and interest that characterizes its author, T. Greiner. Even if one is not particularly interested in the business, almost any person who picks up Greiner's books will like to read them through.

10—**Irrigation for the Farm, Garden, and Orchard, Stewart****..... 1 40

This book, so far as I am informed, is almost the only work on this matter that is attracting so much interest, especially recently. Using water from springs, brooks, or windmills, to take the place of rain, during our great droughts, is the great problem before us at the present date. The book has 274 pages and 142 cuts.

5 | **A B C of Strawberry Culture, by T. B. Terry and A. I. Root, 144 pages; 32 illustrations**** 35

10 | **The New Agriculture, or the Waters Led Captive***..... 40

This book created quite a sensation three or four years ago; and while father Cole's bright visions have not all been realized, I think the book contains much that is good. It is a large nice book, and was originally sold for \$1.50. I purchased 100 volumes when it was first issued; but as it has not sold very well, I now offer them at 40c each.

8 | **What to Do, and How to be Happy While Doing It, by A. I. Root****..... 75

The above book is intended to solve the problem of finding occupation for those scattered all over our land, out of employment. The suggestions are principally about finding employment around your own homes. The book is mostly upon market-gardening, fruit culture, poultry-raising, etc. I think it will be well worth the price, not only to those out of employment, but to any one who loves home and rural industries. Price in paper covers, 50 cts. Eight cents extra by mail.

The A. I. ROOT CO., Medina, O.